Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-30-10** **Date: 02-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 70%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.32	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.1	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-30-10** **Date: 28-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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AE(I-c)

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-30-10** **Date: 02-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	329	329	2.2	97.8	90-100
3	20 mm	7311	7640	50.9	49.1	30-70
4	10 mm	4896	12536	83.6	16.4	10-35
5	4.75 mm	2148	14684	97.9	2.1	0-5
6	Pan	316	15000	100.0	0	---

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

M : 9972924526 | Tel : +91 80-23444801 | e : techgn6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-30-10** **Date: 02-08-2018**

Sample ID No : 2018-07-30-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.40	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-30-10** **Date: 02-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	289	289	5.8	94.2	90-100
3	10 mm	2399	2688	53.8	46.2	25-55
4	4.75 mm	2065	4753	95.1	4.9	0-10
5	Pan	247	5000	100	0	–

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-30-10** **Date: 02-08-2018**

Sample ID No : 2018-07-30-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.44	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.39	–
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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AE(W2D)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Ba... Nagara Palike

CIVIL Pro BANGALORE Date

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-07-30-10** **Date: 02-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-07-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	169	183	18.3	81.7	60-95	75-100	85-100	95-100
4	1.18 mm	175	358	35.8	64.2	30-70	55-90	75-100	90-100
5	600 micron	263	621	62.1	37.9	15-34	35-59	60-79	80-100
6	300 micron	244	865	86.5	13.5	5-20	8-30	12-40	15-50
7	150 micron	101	966	96.6	3.4	0-10	0-10	0-10	0-15
8	Pan	34	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

M : 9972924526 | Tel : +91 80 23444801 | Bangalore - 560 092 | mahesh6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-30-10** **Date: 02-08-2018**

Sample ID No : 2018-07-30-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	3.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE (Incl) .N.D

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Ba... Gr...agara Pal...

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-08-01-09**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. **Date: 04-08-2018**
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-2018
Sample ID No	:	2018-08-01-09 /01
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	01-08-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	153	203	12455	24.980	2005.7	2009.5	Not less than 1800Kg/m^3
2	402	152	201	12282	24.680	2009.5		
3	403	151	202	12292	24.750	2013.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.910	24.500	5.76	5.28	Shall not be more than 10% by mass
2	25.870	24.560	5.33		
3	25.790	24.620	4.75		

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23442801 | E : techan0630@yahoo.co.in, civilproexperts@gmail.com

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Date: 04-08-2018

ab ID : CP-2018-08-01-09

Sample ID No : 2018-08-01-09 /01

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	149	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	151	201	
3	402	150	202	
4	403	149	201	
5	401	150	199	
6	402	152	203	
7	403	149	203	
8	402	150	201	
9	401	151	201	
10	403	153	200	
11	401	150	198	
12	402	149	203	
13	401	151	201	
14	403	150	203	
15	400	150	201	
16	403	150	203	
17	402	151	201	
18	401	150	203	
19	403	152	201	
20	402	151	201	
Average of 20	402	150	201	

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Certificate No.: TC- 5548

Lab ID : CP-2018-08-01-09

Sample ID No : 2018-08-01-09 /01

Date: 04-08-2018

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	149	60047	249.6	4.2	4.4
2	401	151	60551	251.7	4.2	
3	402	150	60300	289.1	4.8	
4	403	149	60047	272.4	4.5	
5	401	150	60150	255.9	4.3	
6	402	152	61104	272.6	4.5	
7	403	149	60047	275.9	4.6	
8	402	150	60300	263.7	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore ***

CIVIL Pro Sig Date BANGALORE

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TEST RESULTS OF STEEL

Date: 01-08-2018

Lab ID	:	**CP-2018-07-30-10**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /04
Sample Type	:	INDUS
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	31-07-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	8	0.391	518	632	20.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.614	529	659	20.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.881	546	663	20.0%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-07-30-10** **Date: 04-08-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-2018

Sample ID No : 2018-07-30-10 /06

Sample Type /Size : Precast Cover Slab- 100mm Thick

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 31/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.51	1.398	4474	88.6	19.8	18.4	23.0
2	Cover Slab-2	75.42	100.49	1.356	4467	87.1	19.5	18.1	22.7
3	Cover Slab-3	75.48	100.53	1.364	4474	86.5	19.3	18.0	22.5

Note:

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AE(L-II)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-07-30-10** **Date: 04-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-2018
Sample ID No	:	2018-07-30-10 /06
Sample Type /Size	:	Precast Cover Slab- 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	31/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.03	250.01	2.845	17675	348.9	19.7	18.4	22.9
2	Cover Slab-2	150.04	250.06	2.812	17678	343.6	19.4	18.1	22.6
3	Cover Slab-3	150.01	250.04	2.875	17670	352.9	20.0	18.6	23.2

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2018-07-30-10 **Date: 04-08-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-2018

Sample ID No : 2018-07-30-10 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 31/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-08-05** **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-05 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	151.22 X 149.63 X 150.75	22627	8.202	291.9	12.9	12.3
2	PCC	M15	06/08/2018	13/08/2018	149.63 X 150.22 X 150.75	22477	8.163	265.2	11.8	
3	PCC	M15	06/08/2018	13/08/2018	150.43 X 150.56 X 150.98	22649	8.155	278.6	12.3	

Note:

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AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-08-05** **Date: 03/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-05 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	151.33 X 150.47 X 150.96	22771	8.206	430.4	18.9	18.2
2	PCC	M15	06/08/2018	03/09/2018	150.47 X 150.33 X 150.74	22620	8.196	398.1	17.6	
3	PCC	M15	06/08/2018	03/09/2018	150.96 X 150.23 X 150.66	22679	8.201	410.5	18.1	

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AE(LGT)

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Karthik Nagar Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-08-05** **Date: 13/08/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-2018
Sample ID No	:	2018-08-08-05 /03
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	151.12 X 150.66 X 150.98	22768	8.199	261.8	11.5	12.0
2	PCC	M15	06/08/2018	13/08/2018	150.75 X 149.78 X 151.42	22579	8.145	273.2	12.1	
3	PCC	M15	06/08/2018	13/08/2018	150.66 X 151.46 X 150.75	22819	8.209	280.7	12.3	

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AE (W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-08-05** **Date: 03/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-05 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	150.09 X 149.87 X 150.66	22494	8.169	380.1	16.9	17.6
2	PCC	M15	06/08/2018	03/09/2018	150.27 X 150.22 X 149.63	22574	8.133	417.6	18.5	
3	PCC	M15	06/08/2018	03/09/2018	150.77 X 149.63 X 150.63	22560	8.152	392.5	17.4	

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AE (Ltd)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-08-05 **Date: 13/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-08-2018

Sample ID No : 2018-08-08-05 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	13/08/2018	151.08 X 149.76 X 151.33	22626	8.196	280.6	12.4	12.4
2	PCC	M15	06/08/2018	13/08/2018	149.56 X 150.29 X 150.44	22477	8.156	283.2	12.6	
3	PCC	M15	06/08/2018	13/08/2018	151.74 X 150.87 X 151.63	22893	8.132	277.0	12.1	

Note:
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Asstt. E.E (Tech)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-08-05** **Date: 03/09/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-2018
Sample ID No	:	2018-08-08-05 /06
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	06/08/2018	03/09/2018	151.76 X 151.98 X 149.56	23064	8.096	424.4	18.4	17.7
2	PCC	M15	06/08/2018	03/09/2018	151.44 X 150.74 X 150.63	22828	8.117	401.8	17.6	
3	PCC	M15	06/08/2018	03/09/2018	150.75 X 150.22 X 150.76	22646	8.166	387.2	17.1	

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AE(Ltd)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-11-01

Date: 17/08/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /01

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	149.96 X 150.13 X 151.32	22512	8.543	411.6	18.3	18.3
2	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	149.27 X 151.02 X 150.25	22542	8.153	407.8	18.1	
3	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	149.74 X 150.73 X 150.99	22571	8.353	417.8	18.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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AE(HQ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-11-01** **Date: 07/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	149.67 X 150.35 X 151.49	22502	8.564	531.9	23.6	23.2
2	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	151.30 X 150.44 X 150.04	22761	8.396	507.1	22.3	
3	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	150.59 X 149.65 X 149.62	22536	8.245	537.0	23.8	

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AE (Hq)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-11-01

Date: 17/08/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /03

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	150.73 X 151.77 X 150.45	22875	8.354	432.1	18.9	18.6
2	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	151.19 X 149.51 X 151.52	22604	8.204	425.1	18.8	
3	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	149.64 X 151.22 X 149.44	22629	8.204	412.9	18.2	

Note:

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AE(NR)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-11-01** **Date: 07/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /04

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	150.20 X 150.15 X 151.90	22552	8.203	531.9	23.6	23.4
2	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	151.72 X 149.97 X 149.24	22753	7.984	515.0	22.6	
3	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	149.65 X 149.44 X 149.67	22364	8.327	535.1	23.9	

Note:
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AE (L-2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-11-01** **Date: 17/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /05

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	150.83 X 149.28 X 149.47	22516	8.150	421.9	18.7	18.4
2	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	150.39 X 150.65 X 149.94	22657	8.286	419.8	18.5	
3	M20 Concrete (RMC)	M20	10/08/2018	17/08/2018	151.87 X 150.48 X 150.48	22852	8.157	412.5	18.1	

Note:

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All information furnished by Customer/Representative
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AE(LM)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-11-01** **Date: 07/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-2018

Sample ID No : 2018-08-11-01 /06

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	149.32 X 149.32 X 149.18	22296	8.231	515.1	23.1	23.3
2	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	149.35 X 150.95 X 151.17	22545	8.444	512.3	22.7	
3	M20 Concrete (RMC)	M20	10/08/2018	07/09/2018	149.91 X 149.58 X 151.54	22423	8.323	536.6	23.9	

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AE(WS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-14-04** **Date: 20/08/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2018
Sample ID No	:	2018-08-14-04 /01
Customer ID	:	M20 Concrete (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.98 X 150.40 X 150.86	22557	8.092	411.1	18.2	18.5
2	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.14 X 150.02 X 151.92	22524	8.111	424.7	18.9	
3	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.63 X 150.53 X 150.74	22523	7.973	412.3	18.3	

Note:
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AE(M2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-14-04** **Date: 10/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2018

Sample ID No : 2018-08-14-04 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.64 X 149.04 X 151.16	22302	8.557	530.7	23.8	23.2
2	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.60 X 151.35 X 150.32	22641	8.469	514.1	22.7	
3	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.84 X 150.49 X 150.69	22550	8.275	523.5	23.2	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara P...
Bangalore - 560 092

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Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-14-04** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2018

Sample ID No : 2018-08-14-04 /03

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.00 X 151.66 X 151.11	22598	8.341	414.7	18.4	18.6
2	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.37 X 150.54 X 150.18	22487	8.076	414.0	18.4	
3	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.62 X 149.83 X 149.84	22568	8.148	426.7	18.9	

Note:

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Asst. Ex. Engr. AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanegara Palike
Bangalore - 560 092

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Certificate No.: TC- 5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-14-04** **Date: 10/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2018

Sample ID No : 2018-08-14-04 /04

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.66 X 150.71 X 149.75	22555	8.166	528.4	23.4	23.3
2	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	151.65 X 151.12 X 151.51	22917	8.330	520.6	22.7	
3	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.81 X 150.97 X 149.39	22769	8.125	542.1	23.8	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa[illegible]
Bangalore - 560 092

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-14-04** **Date: 20/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2018

Sample ID No : 2018-08-14-04 /05

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	150.44 X 150.74 X 150.38	22677	8.276	425.6	18.8	18.7
2	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.95 X 151.84 X 150.44	22768	8.189	428.0	18.8	
3	M20 Concrete (RMC)	M20	13/08/2018	20/08/2018	149.76 X 149.64 X 149.29	22410	8.148	412.1	18.4	

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Asst.Exe.Engr
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2018-08-14-04 **Date: 10/09/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-08-2018
Sample ID No	:	2018-08-14-04 /06
Customer ID	:	M20 Concrete (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.58 X 149.69 X 151.41	22540	8.111	532.7	23.6	23.3
2	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	150.41 X 150.87 X 151.03	22693	8.004	509.8	22.5	
3	M20 Concrete (RMC)	M20	13/08/2018	10/09/2018	149.31 X 151.67 X 149.74	22646	8.164	541.1	23.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-18-02

Date: 23/08/2018

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /01

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	150.55 X 151.07 X 150.79	22743	8.278	417.6	18.4	18.4
2	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.57 X 151.91 X 152.00	22720	8.522	429.2	18.9	
3	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	151.62 X 149.86 X 151.88	22722	8.043	410.3	18.1	

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AE(W-7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-18-02** **Date: 13/09/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /02

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	151.61 X 149.55 X 149.10	22674	8.406	542.0	23.9	23.2
2	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	149.91 X 151.56 X 151.15	22721	8.456	504.1	22.2	
3	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	149.43 X 150.49 X 151.49	22488	7.942	525.7	23.4	

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AE (Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-18-02** **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /03

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	151.25 X 149.94 X 151.61	22678	8.136	410.5	18.1	18.4
2	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.91 X 149.89 X 149.93	22469	8.126	425.4	18.9	
3	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.01 X 149.01 X 149.32	22204	8.287	402.4	18.1	

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AE(HT)

Assistant Executive Engineer
Kodigehalli Sub Div.
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC- 5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/09/2018

	:	CP-2018-08-18-02
	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
	:	Kodigehalli Sub Division, BBMP, Bangalore.
	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-2018
Sample ID No	:	2018-08-18-02 /04
Customer ID	:	M20 Concrete (RCC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	151.64 X 150.88 X 149.31	22881	7.946	536.1	23.4	23.2
2	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	149.15 X 150.31 X 151.16	22418	8.456	501.9	22.4	
3	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.60 X 149.39 X 151.07	22497	8.417	538.2	23.9	

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AE(L=1)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 032

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-18-02** **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to roods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /05

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.59 X 151.64 X 151.33	22595	8.418	410.5	18.2	18.3
2	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	150.18 X 151.30 X 149.55	22723	8.282	410.0	18.0	
3	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	151.97 X 151.69 X 150.06	23052	8.563	428.2	18.6	

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig. Date BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2018-08-18-02 **Date: 13/09/2018**

: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

: Kodigehalli Sub Division, BBMP, Bangalore.

Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /06

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.35 X 150.15 X 149.02	22575	8.196	531.9	23.6	23.1
2	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.97 X 150.03 X 150.48	22651	8.354	513.8	22.7	
3	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	149.06 X 150.72 X 149.08	22466	8.253	519.1	23.1	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/08/2018

Lab ID	:	**CP-2018-08-18-02**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-2018
Sample ID No	:	2018-08-18-02 /07
Customer ID	:	M20 Concrete (RCC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.81 X 151.01 X 150.35	22624	8.199	418.1	18.5	18.7
2	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	151.18 X 150.83 X 150.41	22801	8.526	428.4	18.8	
3	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.00 X 149.34 X 151.11	22251	8.359	418.8	18.8	

Note:
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AE(LT)

Assistant Executive Engineer
Kodigehalli Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2018-08-18-02 **Date: 13/09/2018**
stomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-2018
Sample ID No	:	2018-08-18-02 /08
Customer ID	:	M20 Concrete (RCC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.45 X 151.64 X 149.14	22815	8.526	530.7	23.3	23.2
2	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.51 X 149.07 X 149.21	22436	8.112	507.9	22.6	
3	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	151.91 X 150.23 X 149.41	22821	8.126	540.0	23.7	

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AE(Ltg)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-18-02** **Date: 23/08/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-2018

Sample ID No : 2018-08-18-02 /09

Customer ID : M20 Concrete (RCC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	150.73 X 151.07 X 149.52	22770	8.541	421.7	18.5	18.5
2	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	150.30 X 151.26 X 149.66	22735	8.116	419.1	18.4	
3	M20 Concrete (RCC)	M20	16/08/2018	23/08/2018	149.33 X 151.60 X 149.10	22639	8.235	418.4	18.5	

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division.
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/09/2018

ID	:	CP-2018-08-18-02
tomer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
ddress	:	Kodigehalli Sub Division, BBMP, Bangalore.
roject Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-08-2018
Sample ID No	:	2018-08-18-02 /10
Customer ID	:	M20 Concrete (RCC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.65 X 149.53 X 151.91	22526	8.016	522.0	23.2	23.1
2	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	149.41 X 150.53 X 149.02	22491	8.436	515.8	22.9	
3	M20 Concrete (RCC)	M20	16/08/2018	13/09/2018	150.41 X 149.50 X 150.01	22486	8.212	523.1	23.3	

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-08-16-02** **Date: 18-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2018
Sample ID No	:	2018-08-16-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	16-08-2018
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	215	215	2.0	98.0	95-100
22.4	2245	2460	22.4	77.6	60-80
11.2	2163	4623	42.0	58.0	40-60
4.75	2210	6833	62.1	37.9	25-40
2.36	1745	8578	78.0	22.0	15-30
0.6	1289	9867	89.7	10.3	8-22
0.075	899	10766	97.9	2.1	0-5

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End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 18-08-2018

Lab ID	:	CP-RW-2018-08-16-02
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2018
Sample ID No	:	2018-08-16-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-08-2018

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.5	298.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.1	70.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.7	227.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.4
5	Aggregate impact value	(B/A)*100	24.2	23.6
6	Aggregate impact value (Mean of two tests)	Pecentage	23.9	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-16-02** **Date: 18-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2018
Sample ID No	:	2018-08-16-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-08-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.5%	
Combined Flakiness and Elongation Index for WMM	22.4%	

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

AE(E)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-08-21-03** **Date: 23-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-2018
Sample ID No	:	2018-08-21-03/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	21-08-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	62	60 to 70
2	Softening Point, °C	48.2	Min. 40°C
3	Ductility, cm	99	Min. 75cm
4	Flash point, °C	229	Min. 220°C
	Fire point, °C	238.5	

Note:
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Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 002

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-08-24-04**	**Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.	
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.	
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	24-08-2018	
Sample ID No	:	2018-08-24-04/01	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of test	:	24-08-2018	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	0.2	99.8	90-100
9.5	702	714	14.3	85.7	70-88
4.75	915	1629	32.6	67.4	53-71
2.36	692	2321	46.4	53.6	42-58
1.18	502	2823	56.5	43.5	34-48
0.6	529	3352	67.0	33.0	26-38
0.3	600	3952	79.0	21.0	18-28
0.15	325	4277	85.5	14.5	12-20
0.075	329	4606	92.1	7.9	4-10
PAN	394	5000	100	0.0	0

Note:-
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Applied.N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-08-24-04** **Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-08-24-04/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	24-08-2018

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.7	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.5	1.5		

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Authorized Signatory
Quality Manager

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AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-08-24-04** **Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-08-24-04/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-08-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.9	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.6		
Strength	Aggregate Impact Value	20.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.62	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.28	Maximum 2%	IS:2386 Part III

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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

AE(Ex)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-08-24-04** **Date: 27-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-2018
Sample ID No	:	2018-08-24-04/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-08-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.82	11.79	10KN(min)
2	Marshal flow at 60°C, mm	3.49	3.51	2-4
3	Percent air Voids	4.76	4.66	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.75	14.32	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.99	70.56	65-75
6	Density, g/cc	2.26	2.25	–

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Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 31-08-2018

Lab ID	:	CP-RW-2018-08-29-01
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	29-08-2018
Sample ID No	:	2018-08-29-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	29-08-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.20
4	Average percentage	%	6.3	

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Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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: CP-RW-2018-08-29-01

: 2018-08-29-01/01

Date: 31-08-2018

AFTER EXTRACTION - Trail-1

Weight of the Sample(gm) : 468

Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	63	65	13.9	86.1	70-88
4.75	128	193	41.2	58.8	53-71
2.36	65	258	55.1	44.9	42-58
1.18	21	279	59.6	40.4	34-48
0.6	25	304	65.0	35.0	26-38
0.3	59	363	77.6	22.4	18-28
0.15	32	395	84.4	15.6	12-20
0.075	39	434	92.7	7.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	3	3	0.6	99.4	90-100
9.5	66	69	14.7	85.3	70-88
4.75	123	192	40.9	59.1	53-71
2.36	61	253	53.9	46.1	42-58
1.18	23	276	58.8	41.2	34-48
0.6	28	304	64.8	35.2	26-38
0.3	62	366	78.0	22.0	18-28
0.15	33	399	85.1	14.9	12-20
0.075	35	434	92.5	7.5	4-10

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Quality Manager

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2018-08-20-03** **Date: 21-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-03/01
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of testing	:	20-08-2018

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(L-II)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2018-08-20-03** **Date: 21-08-2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.
Agency	:	Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.
Customer's Reference	:	BBMP/EE/BTP/WO/72/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-08-2018
Sample ID No	:	2018-08-20-03/01
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	20-08-2018

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	272	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	492	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24.5	Min 23%	Satisfactory

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Quality Manager

AE(IT)

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : CP-2018-08-20-03 **Date: 21-08-2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package -3, Includes 4 works of Rs.249.00 Lakhs 1) Improvements to CA sites providing Chain link fencing in Coffee board layout and surrounding areas in Ward No.07, Byatarayanapura. 2) Improvements to CA sites providing Chain link fencing in Jakkur, Jakkur Layout and surrounding areas in Ward No.07, Byatarayanapura. 3) Improvements to raods and footpaths Vinayaka Layout 1st stage, Vinayaka Layout 2nd stage and Amruthanagara in Ward No.07, Byatarayanapura. 4) Construction and improvements of toilets in Sahakaranagar, Byatarayanapura surrounding areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B.Umesh, No.385/1, Near Anjeneya Temple, Bettahalasuru(P), Bangalore North-562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-2018

Sample ID No : 2018-08-20-03/01

Type of Sample : M.S Rectangular Pole(60X60X6)mm

Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.

Date of testing : 20-08-2018

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.82	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	283	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	496	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	24	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

Note:
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Authorized Signatory
Quality Manager

A.E(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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